

ABSTRACT

An object of the present invention is to provide a honeycomb filter for purifying exhaust gases that is free from occurrence of cracks and coming-off of plugs and is superior in durability upon its use.

According to the present invention, the honeycomb filter for purifying exhaust gases has a structure in that a columnar body made of porous ceramics, which has a number of through holes placed in parallel with one another in the length direction with wall portion interposed therebetween, is designed so that predetermined through holes of the through holes are filled with plugs at one end of the columnar body, while the through holes that have not been filled with the plugs at the one end are filled with plugs at the other end of the columnar body, and that part of or the entire wall portion functions as a plug for collecting particles, wherein

a bending strength $F\alpha$ (MPa) of the honeycomb filter for purifying exhaust gases and a length L (mm) of the plug in the length direction of the through hole satisfy the relationship of $F\alpha \times L \geq 30$.